

Rosen CA, Ruben SM, Komatsoulis G;  
WPI; 2000-656324/63.

New nucleic acid molecules encoding human secreted proteins, used in preventing, treating or ameliorating a disorder, e.g. Alzheimer's and Parkinson's diseases and cancers.

Disclosure; Page 469-470; 478pp; English.

The invention relates to the isolation of genes AAC96900-C96947 encoding the human secreted proteins AAB52104-B52150. This sequence was used as a query sequence for BLASTX searches. The genes and proteins are useful for preventing, ameliorating or treating medical conditions, e.g. by protein or gene therapy. The genes are isolated from a range of human tissues disclosed in the specification. The nucleic acids, proteins, antibodies and (ant)agonists are useful in the diagnosis, treatment and prevention of: (a) cancer, e.g. breast and ovarian cancer, and other cancers of the adrenal gland, bone, bone marrow, breast, gastrointestinal tract, liver, lung, or urogenital; (b) immune disorders e.g. Addison's disease, allergies, autoimmune haemolytic anaemia, autoimmune thyroiditis, diabetes mellitus, Crohn's disease, multiple sclerosis, rheumatoid arthritis and ulcerative colitis; (c) cardiovascular disorders such as

CC myocardial ischaemias; (d) wound healing; (e) neurological diseases e.g.  
 CC cerebral anoxia and epilepsy; and (f) infectious diseases such as viral,  
 CC bacterial, fungal and parasitic infections  
 XX  
 SQ Sequence. 243 AA;

Query Match 46.0%; Score 1221; DB 3; Length 243;  
 Best Local Similarity 100.0%; Pred. No. 7.7e-104;  
 Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 108 PLKGNFIIFLVNTIILWVEIIELESTNTKLPKLTLEVAANFILLIFILEILLKWL 167  
 DB 1 PLKGNFIIFLVNTIILWVEIIELESTNTKLPKLTLEVAANFILLIFILEILLKWL 60  
 QY 168 NFSVFKSANVDFVVTMLSLLEVEVVLGVGTQSVLQRLCRVLSRLKLAQFROI 227  
 DB 61 NFSVFKSANVDFVVTMLSLLEVEVVLGVGTQSVLQRLCRVLSRLKLAQFROI 120  
 QY 228 QIILVLVRLKSMFTLLMLLIPFYIFAVTGVVVFSEYTRSPQDLEHYHVFSDLPNSL 287  
 DB 121 QIILVLVRLKSMFTLLMLLIPFYIFAVTGVVVFSEYTRSPQDLEHYHVFSDLPNSL 180  
 QY 288 VTFVIFLTDHWYALLOQVWKVPVSRIFPSIYFILMLLGSIIIFRSIIIVAMVTNFQNI 347  
 DB 181 VTFVIFLTDHWYALLOQVWKVPVSRIFPSIYFILMLLGSIIIFRSIIIVAMVTNFQNI 240  
 QY 348 RKE 350  
 DB 241 RKE 243

RESULT 13  
 ADF74605  
 ID ADF74605 standard; protein; 236 AA.  
 XX ADF74605;  
 AC ADF74605;  
 DT 26-FEB-2004 (first entry)  
 DE CatSper2 protein sequence homologous to human TCH207 protein.  
 XX CatSper2; potential-dependent calcium ion channel; TCH207; sterility;  
 KW sperm motility; deformity; testis disorder; amenorrhoea;  
 KW menstrual disorder; cancer; non-small cell lung cancer; antiinfertility;  
 KW cytostatic.  
 XX Unidentified.  
 OS WO2003091434-A1.  
 PN 06-NOV-2003.  
 PD  
 XX  
 XX 23-APR-2003; 2003WO-JP005171.  
 XX 24-APR-2002; 2002JP-00123155.  
 PR 01-OCT-2002; 2002JP-00289099.  
 XX  
 XX (TAKE ) TAKEDA CHEM IND LTD.  
 XX  
 XX Nakanishi A, Sagiya Y, Miya H;  
 PI WPI; 2003-854403/79.  
 DR  
 XX Potential-dependent calcium ion channel protein TCH207 and gene encoding  
 PT it for treatment and diagnosis of cancer and sterility.  
 XX  
 PS Disclosure; Fig 1; 121pp; Japanese.

CC This invention relates to a novel potential-dependent calcium ion channel  
 CC identified as the TCH207 protein, as well as TCH207 salts and partial  
 CC peptides derived thereof. Specifically, it refers to three variants of  
 CC the human TCH207 and also related proteins having equivalent activity.  
 CC Furthermore, it describes a screening method to identify compounds that

CC modulate the activity or expression of the calcium ion channel proteins  
 CC including antibodies and antisense compositions. The present invention  
 CC presents compositions that can be useful for the prevention, treatment  
 CC and diagnosis of sterility caused by lack of sperm or sperm motility,  
 CC sperm deformity or death, as well as testis disorders, amenorrhoea and  
 CC menstrual disorders. Additionally, drugs containing the TCH207 protein  
 CC can be used for treating various cancers, for example cancer of the  
 CC testis, ovary, breast or stomach, also non-small cell lung cancer.  
 CC Accordingly, these compositions have antiinfertility and cytostatic  
 CC activities. This polypeptide sequence is the catSper2 protein that shares  
 CC homology with the human TCH207 protein of the invention.  
 XX

SQ Sequence 236 AA;

Query Match 38.4%; Score 1020; DB 7; Length 236;  
 Best Local Similarity 100.0%; Pred. No. 2.6e-85;  
 Matches 202; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 139 LWPCLKLTLEVAANFILLIFILEILLKWLNSFVFKSANVDFVVTMLSLLEVEVVLGV 198  
 DB 35 LWPCLKLTLEVAANFILLIFILEILLKWLNSFVFKSANVDFVVTMLSLLEVEVVLGV 94  
 QY 199 VTGOSVWLQRLCRVLSRLKLAQFROIQIILVLVRLKSMFTLLMLLIPFYIFAVT 258  
 DB 95 VTGOSVWLQRLCRVLSRLKLAQFROIQIILVLVRLKSMFTLLMLLIPFYIFAVT 154  
 QY 259 GVVVFSEYTRSPQDLEHYHVFSDLPNSLVTFTLTDHWYALLOQVWKVPVSRIFPS 318  
 DB 155 GVVVFSEYTRSPQDLEHYHVFSDLPNSLVTFTLTDHWYALLOQVWKVPVSRIFPS 214  
 QY 319 IYFILMLLGSIIIFRSIIIVAMM 340  
 DB 215 IYFILMLLGSIIIFRSIIIVAMM 236

RESULT 14  
 AAB52145  
 ID AAB52145 standard; protein; 174 AA.  
 XX AAB52145;  
 AC AAB52145;  
 DT 22-FEB-2001 (first entry)  
 DE Human secreted protein encoded by cDNA #43.  
 XX Cytostatic; immunosuppressive; nontropic; neuroprotective; antiviral;  
 KW antiallergic; hepatotropic; antidiabetic; antiinflammatory; antiulcer;  
 KW vulnery; anticonvulsant; antibacterial; antifungal; antiparasitic;  
 KW cardiant; gene therapy; cancer; immune disorder; cardiovascular disorder;  
 KW neurological disease; infection; human; secreted protein.  
 XX Homo sapiens.  
 OS WO200061624-A1.  
 PN 19-OCT-2000.  
 PD  
 XX 06-APR-2000; 2000WO-US008980.  
 XX 09-APR-1999; 99US-0128700P.  
 PR 20-JAN-2000; 2000US-0176930P.  
 XX (HUMA-) HUMAN GENOME SCI INC.  
 PA Rosen CA, Ruben SM, Komatsoulis G;  
 PI WPI; 2000-656324/63.  
 DR N-PSDB; AAC96942.  
 DR  
 XX New nucleic acid molecules encoding human secreted proteins, used in  
 PT preventing, treating or ameliorating a disorder, e.g. Alzheimer's and  
 PT Parkinson's diseases and cancers.  
 XX